

What is claimed is:

5 1. A method for routing test comprising the following steps of:

checking a test mode of the routing test by receiving the test mode by a user;
recalling a stored virtual network or editing the virtual network, when the routing test is performed by using a virtual network defined by the user;

generating new virtual networks recursively based on respective information, when the routing test is performed by using a virtual network generated by a virtual network generator included in a routing test system;

10 operating a target protocol of a virtual router and a router under test of the virtual network; and

transmitting a packet having a portion of the virtual network as a destination address through the router under test, and monitoring links of the router under test.

15 2. The method according to claim 1, wherein the virtual network generator can input information of network constitution and restriction conditions of the generated virtual network, and generates the virtual network randomly when a number of network nodes, a number of whole links, a number of links coupled to the router under test, the information of network constitution, and the restriction conditions are inputted to
20 satisfy the inputted information and conditions.